



Educational goals and objectives by rotation:

Rotation name: Cardiothoracic Surgery

Location: Tufts Medical Center

Program Director: Jeffrey Cooper, M.D.

Length of Rotation: 4 weeks

MEDICAL KNOWLEDGE

GOAL: The TY Resident will achieve detailed knowledge of the evaluation and management of the cardiothoracic patient.

- Describe the anatomy, physiology of the cardio pulmonary system and the esophagus
- Describe ventilation management including pressure controlled ventilation
- Discuss surgical indications for various types of cardiac and non-cardiac thoracic diseases as well as the natural history of these diseases
- Describe and understand the surgical outcomes including complication and risk/benefit ratio
- Discuss the indications and contraindications of inotropic and vasoactive agents
- Describe the pathway and path physiology of lung and esophageal management

PATIENT CARE

GOAL: The TY resident will provide patient care that is compassionate, appropriate and effective for the treatment of the cardiothoracic patient.

- Apply patient management practices for critically ill patients in the intensive care unit, many of whom have had heart surgery
- Understand how to place chest tubes and pulmonary artery catheters
- Assist attending surgeon on pulmonary resections and perform some cardiopulmonary wedge resections,
- Demonstrate the ability to open the chest and close the chest on the non-cardiac cases

- Harvest saphenous vein and close leg wounds
- Second assist on cardiac surgical cases and cannulate, or de-cannulate the heart; open the chest through midline sternotomy and close the chest
- Conduct daily rounds with the cardiothoracic residents and attending surgeon

INTERPERSONAL AND COMMUNICATION SKILLS

GOAL: The TY resident will demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and professional associates.

- Display a friendly disposition that is conducive to successful interaction with team members and patients
- Communicate treatment plans with support staff and be able to listen and respond to patients and support staff questions in a positive manner
- Interact effectively with patients and family members from a diverse background
- Gather essential information from patients, and accurately document patient encounters
- Interact with nurses, residents, attending surgeons and ancillary staff to achieve the health-related goals of the patient

PROFESSIONALISM

GOAL: The TY resident will demonstrate a commitment to carrying out professional responsibilities adherence to organizational and ethical principles, and demonstrate sensitivity to a diverse patient population.

- Relate and act as a team member with other residents and fellows from other departments
- Interact with the patients and the support staff politely and with respect
- Respond to pages and consults in a timely manner
- Respond to criticism and correction with calm and attentive demeanor
- Demonstrate appropriate dress and decorum while on duty
- Handle all patient information confidentially and not discuss it in hallways or other public places
- Use and know the chain of command on the resident service
- Demonstrate kindness, empathy and maturity in the interrelationship with patients with routine surgical problems

PRACTICE-BASED LEARNING AND IMPROVEMENT

GOAL: The TY resident will investigate and evaluate his or her own patient care practices appraise and assimilate scientific evidence and improve patient care practices.

- Remain current on medical literature as it relates to the cardio pulmonary system and the esophagus
- Be adept with online medical databases
- Demonstrate proficiency at teaching, guiding and being a role model for medical students
- Demonstrate basic skills in resource management
- Participate in cardiothoracic conferences; present journal articles that have been assigned

SYSTEMS-BASED PRACTICE

GOAL: The TY resident will demonstrate an awareness of and responsiveness to the larger context and system of healthcare and be able to call on system resources to provide care that is of optimal value.

- Integrate closely with the total team of medical students, residents, and attending, surgeon, caring for patients with cardiac and non-cardiac thoracic diseases
- Utilize the expertise of other services and support personnel
- Demonstrate good patient advocacy skills
- Recognize and understand how different health insurance companies affect the treatment plan for patients